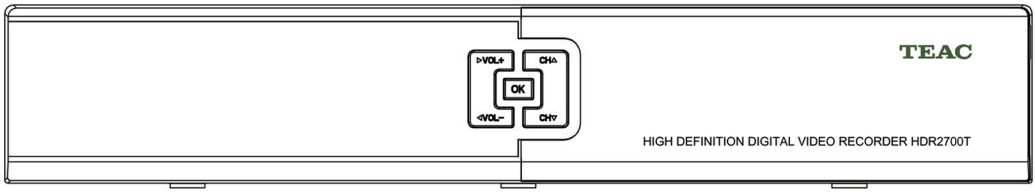
TEAC

HDR2700T

High Definition Digital Video Recorder



“ For Optimum picture and sound quality, please use TEAC Audio/Video cables ”

TEAC High Performance Audio/Video cables and connectors have been designed to enhance your home entertainment experience.

USER MANUAL

IMPORTANT !

WARRANTY INFORMATION INSIDE. PLEASE READ

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www.teac.com.au

TEAC WARRANTY PROCEDURE

v1.5.2: DEC 2011

Please read the owner's manual carefully and ensure that you have followed the correct installation and operating procedures.

1. Please read this warranty card.
2. Keep your purchase receipt to enable you to proceed quickly in the event of a Warranty Service.
3. If you require Warranty Service, please contact the TEAC Customer Support Hotline at 1300 553 315 for assistance. Please ensure that you have the model number, serial number and purchase receipt ready when you call.

Please complete the section below and keep this information for your own records.

Owner's Name

Owner's Address

Postcode

Model Name/No. Serial No.

Dealer's Name

Dealer's Address

Postcode

Authorised Service Centres in Major Australian Cities

NSW
151 Arthur Street
Homebush West, NSW 2140

Queensland
Unit 1, 320 Curtin Ave West
Eagle Farm, QLD 4009

Western Australia
Unit 2, 50 Pilbara Street
Welshpool, WA 6106

South Australia
11 McInnes Street
Ridleyton, SA 5008

Victoria
282 Normanby Road
South Melbourne, VIC 3205

Thank you for selecting a TEAC product.

If you should require assistance with your product regarding its setup or operation, or if any difficulties arise, please call us directly for advice between Monday to Friday at 8.30AM – 6PM AEST at the

TEAC Customer Support Hotline

1300 553 315

teacservicesupport@awa.com.au

www.teac.com.au

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Warranty Terms & Conditions

1. TEAC warrants that this product is free from defects in material and workmanship under normal domestic use with reasonable care and skill. Maintenance and cleaning (i.e. laser head) is not covered by this warranty. The TEAC warranty only applies to TEAC products purchased, used and serviced in Australia.

2. The benefits to the consumer given by this Warranty are in addition to other rights and remedies of the consumer under a law in relation to goods or services to which the warranty relates, being the Australian Consumer Law.

3. Refund or replacement via your retailer is available for a period of 14 days after purchase for goods that have been inspected and determined to have a major failure. Refund and exchange is not applicable for change of mind.

4. Subject to the terms herein, this warranty effectively covers the equipment as specified in the Warranty Periods Table below from the date of purchase.

TEAC PRODUCT	WARRANTY PERIOD
LED/LCD TV 32" (80 cm) and above	1 Year (In-Home Service/ Pick up Available)*
All other TEAC products	1 Year (Carry-in Service)

5. In Home Service/Pick up* Service
   This service will only be provided as part of this warranty if all the following conditions are met;
   a) The product is indicated in the Warranty Period Table.
   b) The product is within the warranty period.
   c) The product is located within the normal service area of the local TEAC Authorised Service Centre.

   If TEAC determines that the product is not repairable on site, TEAC can complete the repair by taking the product to a TEAC Authorised Service Centre.

   Carry-in Service
   Where In-Home service/Pick up* is not available, the purchaser is required to send the product to the nearest TEAC Authorised Service Centre for repair. In this event, proof of purchase is required to support a warranty claim. After the repair, the product will be available for collection by or return to the purchaser at a fee upon request. TEAC in-home service can be made available at a fee upon request.

6. A 12-month replacement warranty is applicable to all Accessories such as Remote, Power Adaptors and Cables.

7. TEAC will ensure to the best of its abilities that all required parts are made available for any required service/repair.

8. TEAC Australia Pty Ltd and its Authorised Service Centres will use their best endeavours to complete product repairs within a reasonable period based on available resources and workload during the time when service is requested and performed.

9. Refurbished parts may be used to repair the product. In the case of a replacement, the product may be replaced, with a refurbished unit of the same type or, if one is unavailable, a similar refurbished model with equal or better features & specifications.

10. Please be advised that if the product presented for repair is capable of retaining user-generated data, the data may be lost during servicing. Customers are strongly encouraged to back up all important information/data before sending the product in for service/repair.

11. Service will be provided only during normal business hours and under safety conditions and circumstances. TEAC and its authorised service agents can refuse any repair if safety, in relation to OH&S, becomes a concern to its staff or authorised service agents' personnel.

12. The warranty is void and warranty claims may be refused, subject to the Australian Consumer Law, if:
    a) The product was not transported, installed, operated or maintained according to manufacturer instruction, or
    b) The product was abused, damaged, tampered, altered or repaired by any unauthorised persons, or
    c) Product failure is due to accidents during use, installation or transit, power surges, use of defective or incompatible external devices, exposure to abnormal conditions such as excessive temperatures or humidity, or entry of liquids, objects or creatures into the product.

13. No one is authorised to assume any liability on behalf of TEAC or impose any obligation on it, in connection with the sale of any equipment other than as stated in this warranty and outlined above.

14. TEAC reserves the right to inspect and verify whether the product is exhibiting a major failure as claimed by customers/retailers.

15. LCD dead pixel policy, please contact TEAC Customer Support Hotline on 1300 553 315 for assistance.

Thank you for purchasing HDR2700T High Definition Digital video recorder.

This manual will help you to install, use and maintain the receiver. Please read this manual carefully before operating your unit and keep it for future reference.

Warning & Note

In this manual, pay special attention to the following marks that indicate hazardous situations.

- **Warning:** Alert user to the operation which could result in device damage or data loss, and the presence of a hazardous situation which could result in serious injury.
- **Note:** Remind user of presence of possible problems and information of any importance to help understand, use and maintain the installation.

Note: The information in this user 's manual is subject to change without notice. The photos and function explan ations in the man ual are for reference. If any discrepancy exists, please refer to the entity.

Safety Instruction

Read following items carefully before operating this unit.

Installation

- Place the unit on a firm and level surface.
- The mains socket should be near the equipment. Do not run an extension lead to the unit.
- Install the unit in a place with:
  good ventilation (leave no less than 10cm around this unit)
  no heat source (burning candle, radiator, heater, fireplace, amplifier, etc)
  suitable temperature
  against humidity (especially bathroom, kitchen, etc)
  no direct sunlight
  low vibration

Maintenance

- Unplug this unit from wall outlet before changing connections between this unit and other related equipment.
- Do not unplug or insert signal, audio and video cables when this unit is turned on.
- To avoid the risk of lightning strike, unplug power adapter of the unit from wall outlet in lightning storms.
- Unplug power adapter from wall outlet when the unit is not used for a long time or damaged accidentally.
- If the unit is moved from a cold environment to a hot environment (and vice versa), leave the power off for 1 to 2 hours.
- To avoid the risk of fire or electric shock, do not expose this unit to rain, splashing and do not place objects filled with liquid on this unit.
- Do not cover vents of this unit with newspaper, table cloth, curtain, etc.
- Do not put heavy objects on this unit.
- Unplug power adapter of this unit from wall outlet before cleaning. To reduce damage, clean this unit with dry cloth. Do not let liquid and spray flow into this device to avoid serious damage.
- There is dangerous voltage in product enclosure. Do not remove the cover (or back) to avoid the risk of fire or electric shock.

Power Socket and Power Adapter

- Power socket should be available near the unit and well grounded.
- Do not insert or pull out power adapter with wet hands to avoid electric shock or fire.
- Do not use damaged power adapter. If power adapter is damaged, contact your local operator for replacement to avoid risk of fire or electric shock.
- Do not excessively bend power adapter, and do not place heavy objects on it, which could cause damage, electric shock or fire.

RCU Battery

- Batteries should be installed in accordance with the (+/-) markings on battery compartment.
- Remove batteries if RCU is not be used for a long time.
- Replace batteries if there is not enough power and dispose of battery waste properly for

environmental protection.

Others

- The all-pole power switch of this receiver is on rear panel. Switch it to "**I**", related equipment will connect with power supply. Switch it to "**o**", related equipment will disconnect with power supply completely.
- Only use accessories specified by the manufacturer, as other unsupported accessories may cause damage to the unit.
- Never open the digital unit casing under any circumstances, otherwise the warranty will be void.
- Refer all servicing to a qualified service technician.

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1. Before Using the unit

1.1 Main Features

- PVR functions and twin tuner function
- Time shift supported
- Upgradeable up to 1TB HDD
- Recording time: up to 100 hours (depend on HDD)
- Variable forward play speed: 2, 4, 8, 16, 32，1/2, 1/4, 1/8
- Variable reverse play speed: 2, 4, 8, 16, 32, 1/2, 1/4, 1/8
- Dolby 5.1 supported
- MP3 playing and photo browsing
- Teletext and closed caption supported
- EPG supported
- Memory space up to 5000 channels
- Support automatic, manual search
- Powerful channel edit function
- Favorite channel group
- PAL/ NTSC supported
- Software upgrade supported
- HDMI output: support 1080i/1080P/720p
- YPbPr output: support 1080i/1080P/720p
- S/P DIF audio supported
- USB 2.0 interface supported

1.2 Accessories

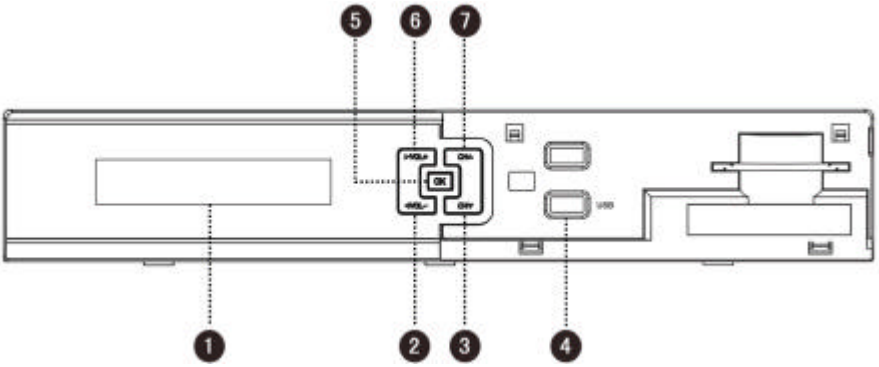
Check and make sure all the following items are included in the package.

User's manual (1) **Remote control unit (1)** **Battery (2)**

RCA cable (1)

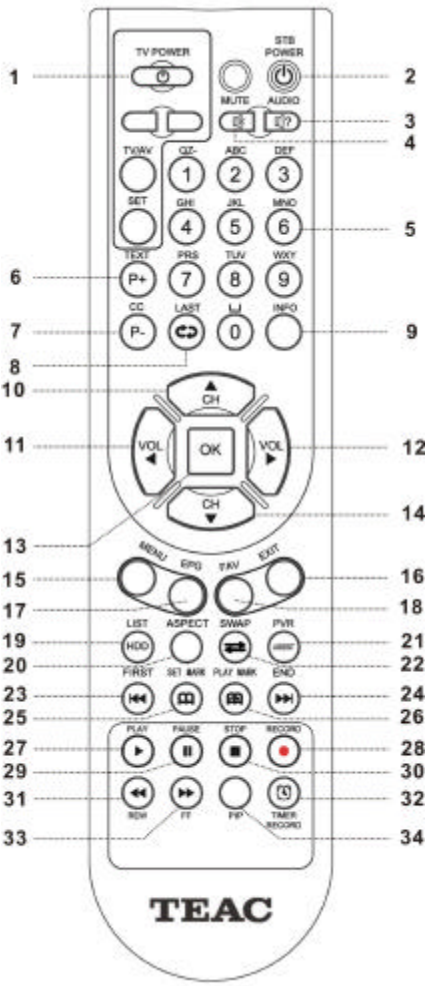
RF male to RF female loop

1.3 Front Panel

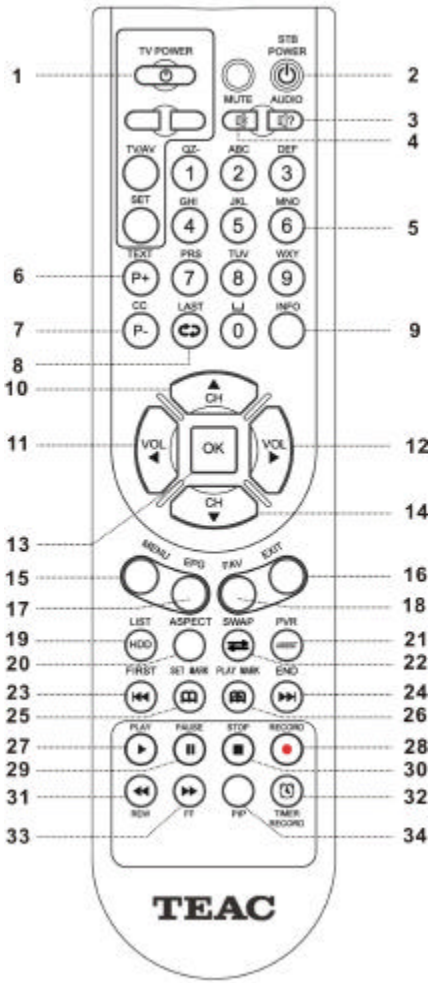


Name	Function
1. DISPLAY	Display status
2/6. VOL-/+	Decrease or increase the volume, change values for menu options or move cursor left/right
3/7. CH▼/▲	Switch to next or previous channel, or move cursor down/up
4. USB	Connect USB devices like a memory stick or an external hard disk drive.
5. OK	Display channel list or confirm operation

1.4 Remote Control Unit (RCU)



Learning keys
1. TV POWER, ⊂⊃, **TV/AV**, **SET**： These keys (except **SET** key) can be program med to learn the corresponding TV function. After that, you can control basic TV functions using the unit's RCU. Refer to page 7 ***Learning Key*** for more details.
The keys of the STB
2. STB POWER: Switch the unit between operation and standby modes . In standby mode, the unit will still record if there is a scheduled recording. Refer to ***2.5 Active Standby and Passive Standby*** for more details.
3. AUDIO: Display audio selection window.
4. MUTE: Mute/restore sound.
5. 0-9: Number keys are used to enter a channel number for changing channels or to specify va lues for menu options.
6. TEXT (P+): Display teletext information or down pages.
7. CC (P-): Switch on/off closed caption or up pages.
8. LAST: Switches between the current channel and the previously viewed channel.
9. INFO: Press once to display current and follo w-ing program. Press twice for detailed information on current program.
10/14. CH: Switch to previous or next channel, or move cursor up/down.
11/12. VOL: Decrease or increase the vo lume, change values for menu options or move cursor left/right.
13. OK: Display channel list (See ***3.4 Cha nnel List***), or confirm operation.
15. MENU: Display main menu.
16. EXIT: Back to previous menu or exi t from op-eration.
17. EPG: Display Electronic Program Guide (EPG).
18. FAV: Display favorite channel list.
20. ASPECT: Display AV setting window



22. SWAP: Swap focus between main screen and PIP window
34. PIP: Display PIP window.
The keys of PVR
19. LIST: Display recorded file list (see ***5.5 Playback File***).
21. PVR: Display shortcut key window (see ***5.8 Shortcut Key of PVR***).
23. FIRST: Skip backwards while playing back.
24. END: Skip forward while playing back.
25. SET MARK: Set bookmark on playback process bar.
26. PLAY MARK: Jump to next bookmark on playback process bar.
27. PLAY: Return to play at normal speed.
28. RECORD: Record current program or display recording information.
29. PAUSE: Pause live television or playback of a recorded file.
30. STOP: Stop playback or recording and return to live television.
31. REW: Start reverse playback in fast motion. Subsequent presses increase the rewind speed (x2, x4, x8, x16, x32).
32. TIMER RECORD: Display schedule window (see ***5.4 Schedule Recording***).
33. FF: Start forward playback in fast motion. Subsequent presses increase the playback speed (x2, x4, x8, x16, x32).
34. SLOW: Start slow motion forward playback. Subsequent presses change the playback speed (x1/2, x1/4, x1/8).
The color coded keys are used for teletext and some menu functions with on the screen description.

Notes:

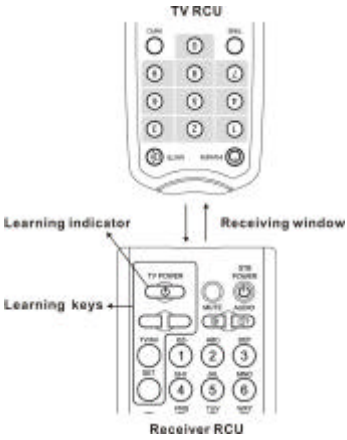
- ***The keys mentioned in the manual refer to that on RCU except for special explanations.***
- ***Please operate according to key instructions on screen.***

Learning Key

The HDR2700T RCU has some learning keys at the upper left side. The keys (except **SET** key) can be used to memorise Infrared key codes from a TV RCU. After memorising, the HDR2700T RCU learning keys can be used to operate the TV.
The recommended keys for the HDR2700T RCU to learn from your TV RCU are as follows: **POWER**, **TV/AV**, **VOL+** and **VOL-**. The TV/AV identifiers vary with different types of TV RCU.

Instructions:

1. Hold down the **SET** key on the HDR2700T RCU for about 2 seconds, the indicator status changes from low light to high light, and then release the **SET** key.
2. Press a learning key on the HDR2700T RCU (such as **TV POWER** key), the indicator light begins to flash slowly.
3. Aim the TV RCU at "receiving window" of the HDR2700T RCU and press the corresponding key on the TV RCU (such as **POWER** key) to be learnt. The indicator light will begin to flash quickly, then remain brightly illuminated indicating the learning process has been successful.
4. Repeat step **2** and **3** to set other lea rning keys in the same way.
5. After setting, press **SET** key to exit .

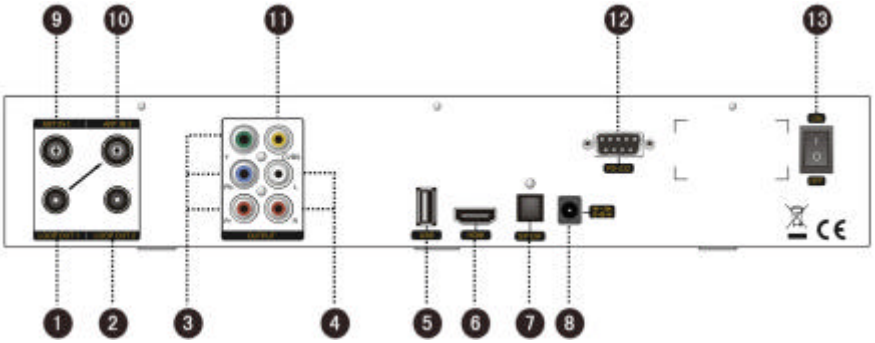


If the operation fails, please try again according to above steps.

Notes:

- ***During setting, put the two RCUs on same horizontal surface and the space between them should be within 5cm.***
- ***If there is no operation in 10 seconds, the unit's RCU will exit from learning mode automatically.***
- ***You can operate the learning function many times, but only the last one will be saved and older settings will be overwritten.***
- ***Some TV RCUs may not support this function.***

1.5 Rear Panel



Name	Function
1. LOOP OUT1	Terrestrial broadcasting signal output socket through the first tuner.
2. LOOP OUT2	Terrestrial broadcasting signal output socket through the second tuner.
3. YPbPr	Component video output socket, output YPbPr video signal to TV(supporting high definition output).
4. L/R-AUDIO	Output left, right or stereo audio signal to TV or amplifier.
5. USB	Connect to specific USB device
6. HDMI	Output high definition video and audio signal to TV.
7. S/P DIF	Optical output socket for Dolby digit al, output digital audio signal to amplifier.
8. 12V ⎓ 3.0A	DC power supply
9. ANT IN1	Terrestrial broadcasting signal input socket for the first tuner.
10. ANT IN2	Terrestrial broadcasting signal input socket for the second tuner.
11. CVBS	Composite video signal output socket for TV.
12. RS-232	Serial port used for software upgrade (authorized for qualified pe r-sonnel).
13. ON/OFF	Power switch.

2. Setup

2.1 Connecting up your unit

There are several ways to connect up your unit as following. If you have any problem with your setup or need help, contact the TEAC Customer Support Hotline 1300 553 315.

2.1.1 Connecting the antenna

- Connect the antenna cable to **ANT IN 1** connector on the rear panel.
- If there are two twin tuners built-in to your unit, you must ensure that there is a connection to both **LOOP OUT 1** and **ANT IN 2** connector with a loop cable, otherwise the unit will not work at its full capacity.
- If you have another unit, connect it from **LOOP OUT 2** connector.
- If you want to receive analogue channels on your TV, connect the antenna cable from the TV to **LOOP OUT 2** connector.

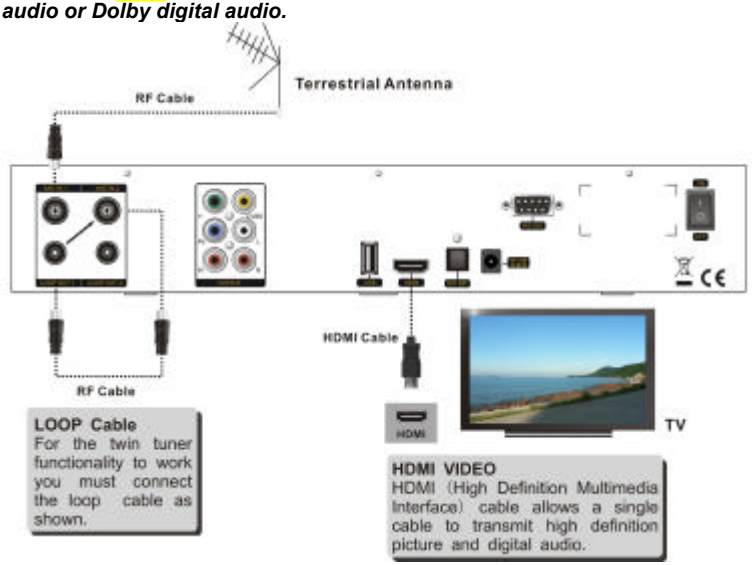
2.1.2 Connecting to your TV set

Between all the following connect ion methods, we recommend you to use the HDMI connection to get best picture quality. If your TV does not support a HDMI connection, then try the next connection methods in the following sequence for the best possible picture quality.

1. To use HDMI connectors

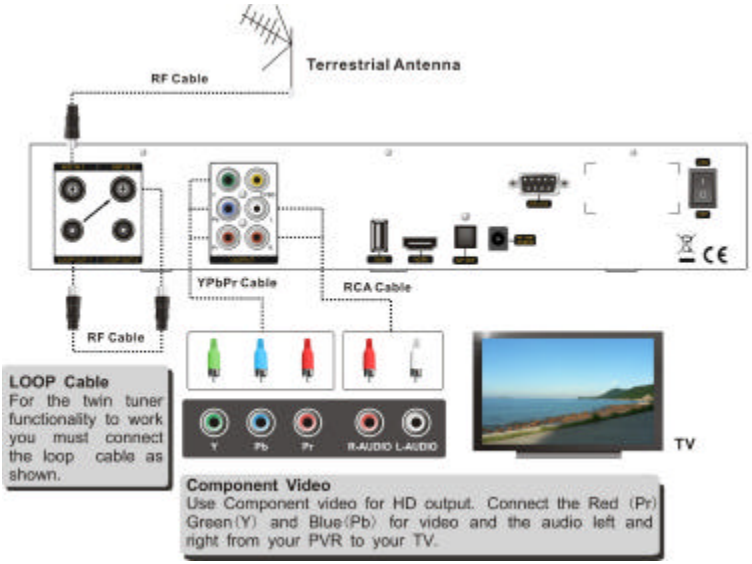
Plug one end of the HDMI cable into **HDMI** socket on the unit, and plug the other end into the matching socket on your TV.

Note: You do not need to make audio con nection because HDMI connector can output stereo audio or Dolby digital audio.


Terrestrial Antenna
RF Cable
HDMI Cable
RF Cable
TV
HDMI
LOOP Cable
For the twin tuner functionality to work you must connect the loop cable as shown.
HDMI VIDEO
HDMI (High Definition Multimedia Interface) cable allows a single cable to transmit high definition picture and digital audio.

2. To use YPbPr (component video) and audio connectors

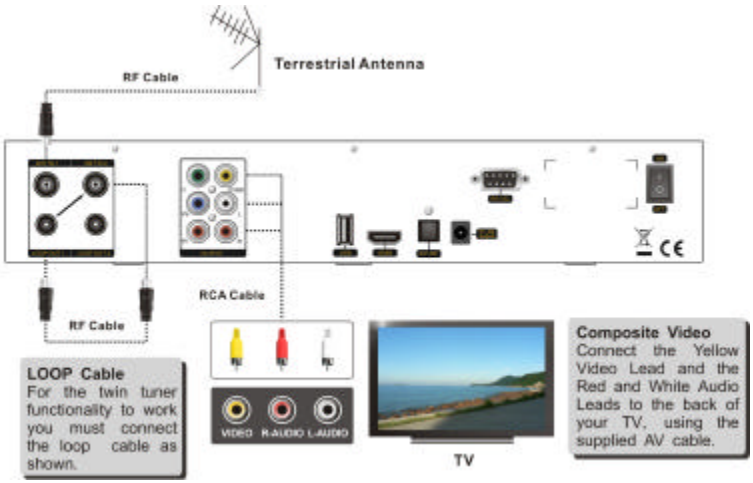
1. Plug one end of the component video cable into the **Y** (green), **Pb** (blue) and **Pr** (red) sockets on the unit, and plug the other ends into the matching sockets on your TV.
2. Plug one end of the audio cable into the **AUDIO L** (white) and **AUDIO R** (red) sockets on the unit, and plug the other end into the matching sockets on your TV or audio system.


Terrestrial Antenna
RF Cable
YPbPr Cable
RCA Cable
RF Cable
LOOP Cable
For the twin tuner functionality to work you must connect the loop cable as shown.
Y
Pb
Pr
R-AUDIO
L-AUDIO
TV
Component Video
Use Component video for HD output. Connect the Red (Pr) Green(Y) and Blue(Pb) for video and the audio left and right from your PVR to your TV.

3. To use CVBS (composite video) and audio connectors

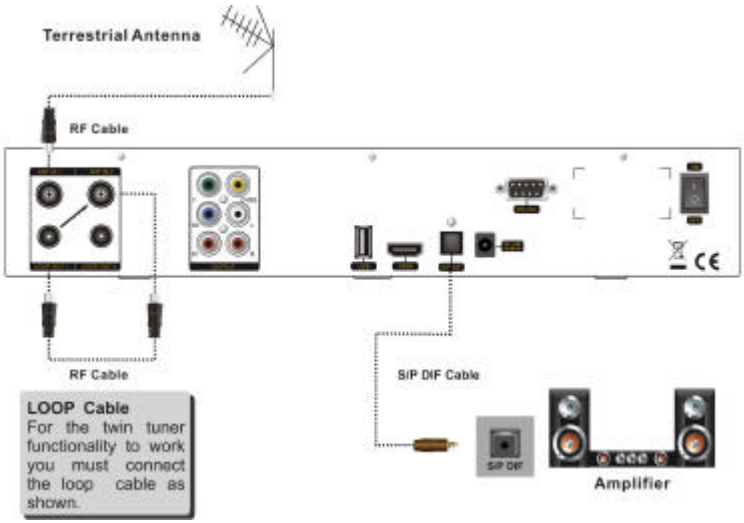
Note: You cannot view high definition video with the composite video connector.

1. Plug one end of the composite video cable into **CVBS** (yellow) socket on the unit, and plug the other end into the matching socket on your TV.
2. Plug one end of the audio cable into the **AUDIO L** (white) and **AUDIO R** (red) sockets on the unit, and plug the other end into the matching sockets on your TV or audio system.


Terrestrial Antenna
RF Cable
RCA Cable
RF Cable
LOOP Cable
For the twin tuner functionality to work you must connect the loop cable as shown.
VIDEO R-AUDIO L-AUDIO
TV
Composite Video
Connect the Yellow Video Lead and the Red and White Audio Leads to the back of your TV, using the supplied AV cable.

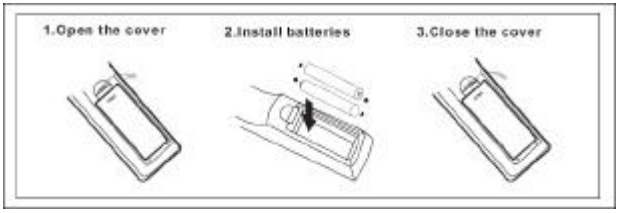
4. To use S/P DIF connection

If you want to enjoy Dolby digital audio, your TV or audio system must be able to decode Dolby digital audio. Plug one end of the optical S/P DIF cable into the **S/P DIF** socket on the unit, and plug the other end into the matching socket on your audio system.



2.2 Inserting batteries into the Remote Control Unit (RCU)

Remove the batt ery cover from the remote control. Insert 2 x AAA size batteries inside the battery compartment. Please take note of the battery 's polarity which is indicated inside the battery compartment.



Note: Batteries, including those which contain no heavy metals, may not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area.

2.3 Power on

1. Connect one end of power adaptor to the receiver.
2. Connect the other end of power adaptor to the wall power supply outlet.
3. Turn on the unit. The system initializes and the start-up OSD is shown on the TV screen.

Note: Please turn on your TV and switch it to AV mode.

2.4 Power on and check picture

1. If channels have already been set up in the unit, channels will be played automatically after initialisation, and the channel number is shown on the front panel DISPLAY.
2. If there are no channels stored in the unit, after initialization, the unit will scan for channels automatically. Refer to ***7.2 Search Type*** for more search details.

2.5 Active Standby & Passive Standby

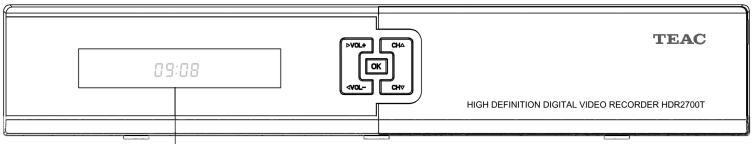
The unit supports two standby modes:

- ACTIVE Standby
- PASSIVE Standby

To turn off unit, press **STB POWER** key on the remote control or front panel, there will be a window pop up with 2 selections. You can press ▲▼ keys to select Active Standby or Passive Standby and press **OK** key to confirm. If you don't make a selection, then the highlighted option will take effect and the unit will turn off after 10 seconds.

In Active Standby Mode:

1. Antenna LOOP OUT connector on the rear panel will still output antenna signal.
2. The current time will be showed on the front panel VFD display, as show below.



This is to indicate Active standby mode.

In Passive Standby Mode:

1. The unit will cut all power and reduce consumption to minimum.
2. Antenna LOOP OUT connector will not output antenna signal.
3. The current time will not be showed on the front panel VFD display.

3. Basic Operation

This part describes operations such as channel switch, volume control andother basic features when playing programs.

3.1 Channel Switch

You can switch channels using the following methods:

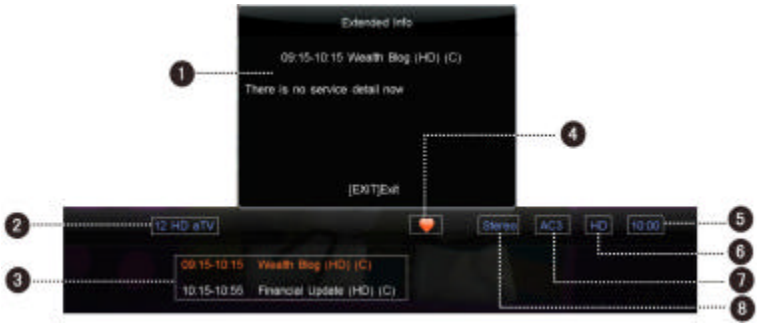
- Press ▲▼ keys to switch channel.
- Input channel number with number keys.
- Press **LAST** key to switch to the previously viewed channel.
- Select channel in channel list. Refer to ***3.4 Channel List*** for detailed operation,

3.2 Volume Control

- Press ◀▶ keys to adjust volume level of your unit.
- Press **MUTE** key to mute/restore sound.

3.3 Program Information

Press **INFO** key to display program information bar. Before it disappears, press **INFO** key again to view detailed information of program. Press **EXIT** key to hide program information bar.



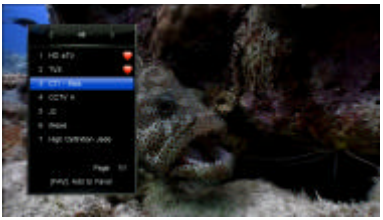
1. Detailed information of current program
2. Channel number and name
3. Current and next program information
4. Favor icon
5. Current time
6. Standard/high definition mode icon
7. Decoding standard
8. Current audio mode

3.4 Channel List

Channel list is available for you to browse channels easily and quickly. On the channel list, you can see all the channel number and channel name.

1. Press **OK** key to display channel list of current service mode.
2. Press ◄► keys to switch among different channel groups.
3. If there are multiple pages, press **P+/-** keys to page down/up.
4. Press ▲▼ keys to select a channel.
5. Press **OK** key to play it in full screen.

Note: In normal viewing mode, you can press FAV key to display the Favorite Channel list.

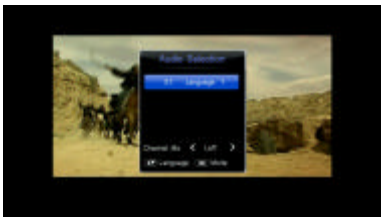


3.5 Audio Selection

Some programs provide more than one audio track with one or more languages. In addition, you can enjoy audio tracks in three sound modes: Stereo, Left or Right.

1. Press **AUDIO** key to display audio se lection window.
2. Press ▲▼ keys to select audio language, and press ◄► keys to select audio mode.
3. Press **EXIT** key to save and exit.

Note: Subject to availability from the broadcaster.



3.6 Teletext

On some channels, information such as weather reports, news or stock quotations are provided by means of teletext.

1. Press **TEXT** key to display teletext window, and the first page shows the index.
2. Input a page number (3 digits) to display specified page.
3. Press **EXIT** key to close teletext window.

Notes:

- ***Subject to availability from the broadcaster.***
- ***Please operate according to on-screen instructions***

3.7 Closed Caption

Press **CC** key to switch on/off closed caption.

Note: Subject to availability from the broadcaster.

3.8 Picture in Picture (PIP)

Watch two channels simultaneously on one screen. The audio in main screen will be used.

1. Activate PIP Function

Select Main Menu > Setting > General Settings and press **OK** key to enter.

1. Highlight "PIP" and press ▶ key to pop up a drop-down list.
2. Select "On" and press **OK** key to confirm.
3. Press **EXIT** key to pop up a warning for confirmation.
4. Select "OK" and press **OK** key to confirm.
5. A reboot prompt pops up on screen. Select "OK" and press **OK** key to reboot or select "EXIT" and press **OK** key to cancel the operation.

Notes:

- ***You can also press ASPECT key to activate PIP function in AV setting window.***
- ***This function is unavailable when some information is displayed on screen, such as channel list, detailed information, etc.***
- ***The modified setting only takes effect after restarting the receiver.***
- ***There will be no video output through RCA if PIP function is activated. In this case, connect the unit to HDTV with YPbPr or HDMI cable and modify the setting to "OFF".***
- ***The audio in main screen will be available***

2. Display/hide PIP Window

Press **PIP** key to display/hide PIP window.

3. Swap PIP Window

You can swap main screen for PIP window by pressing **SWAP** key.

4. Switch Channel in Main Screen

1. Press **OK** key to display channel list.
2. Press ▲▼ keys to select a channel.
3. Press **OK** key to play it in main screen.

4. Electronic Program Guide (EPG)

In this guide, you can view program information for each channel based on date and time. In addition, you can set timer events for recording or switch to a certain channel when a program starts.
Select main menu ? Guide and press **OK** key to enter, or press **EPG** key to enter directly in non-menu mode.

4.1 View EPG Information

EPG information is displayed as follows:

1. Channel list
2. Preview window
3. Current time
4. Date table
5. Program list

In channel list:
Green key: Toggles between a list of available TV channels, radio channels or both.
▲▼ keys: Select channel
OK key: Play current program of the selected channel in full screen
◀▶ keys: Switch between channel list and program list

In program list:
◀▶ keys: Switch between channel list and program list, or select date within a week
▲▼ keys : Select program
OK key: Play current program (in red) in full screen, or pop up a drop-down list that consists of Detail and Book program (in white).

4.2 Schedule Program using EPG

1. Press ▲▼ keys to select a future program.
2. Press **OK** key to pop up a drop-down list.
3. Select "Book program" and press **OK** key to pop up EPG schedule window.
4. Set schedule type and mode. For detailed operations, please refer to ***5.4.1 Add Schedule***.
5. Press **OK** key to confirm the setting. The scheduled program is marked with "" (Record) or "" (Play). If you want to c ancel this setting, press **OK** key again to display the drop—down list, select "Book program".

Notes:

- ***System will record scheduled program in both operational and standby modes.***
- ***Refer to 5.4 Schedule Recording for more detailed operations.***

4.3 View Detailed Program Information

1. Press arrow keys to select a future program.
2. Press **OK** key to pop up a drop-down list.
3. Select "Detail" and press **OK** key to di splay content introduce window.
4. Press **EXIT** key to exit.

Note: You can select a program and press INFO key to view detailed program information.

5. Personal Video Recording (PVR)

PVR is similar to VCR in recording. You can record programs onto to the internal hard disk or an external USB device.

The unit has two tuners so that you can enjoy the following:

- ❖ You can record one channel while watching another.
- ❖ You can record two different channels while watching another -only if two of the channels are provided through the same transponder.
- ❖ You can record two different services while playing back a previously recorded file and even start playing back a recording while it is being recorded. Refer to ***5.5 Playback File*** for more detailed operation.

Notes:

- ***If space on your disk is insufficient, recording will stop automatically.***
- ***Uninstall USB device before unplugging it from the unit. Refer to 5.9.2 Storage Uninstall for detailed operations.***
- ***This unit supports recording programs of two channels simultaneously.***

Warnings:

- ***We cannot guarantee compatibility (operation and/or bus power) with all USB mass storage devices and assume no responsibility for any loss of data that may occur when connected to this unit.***
- ***With large amounts of data, it may take longer for the system to read the contents of a USB device.***
- ***Some USB devices may not be properly recognised.***
- ***Even when they are in a supported format, some files may not play or display d e-pending on the content.***
- ***If the unit does not detect storage device, please wait two to three minutes.***

5.1 Set Storage Device

You can select to record to the internal hard disk or to an external disk drive connected to the USB port.

Select Main Menu ? Setting ? Storage Device and press **OK** key to enter.

1. Press ▲▼ keys to select a device.
2. Press **OK** key to pop up a drop-down list.
3. Press ▲▼ keys to select "Default storage" and press **OK** key to confirm. Recorded files will be saved into the selected device.

You can also select Main Menu ? PVR ? Storage Device and press **OK** key to enter. Select a device and press **OK** key to confirm.

Note: If you set "USB device" as storage device, time shift is unavailable.

5.2 Set Recording Parameter

Note: If you do not set recording parameters, system will record program according to default settings.

Select Main Menu ? PVR ? PVR Setting and press **OK** key to enter.

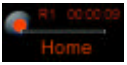
❖ **Schedule Start/Stop Time Offset**

You can set schedule start/stop time offset value. Press ◀▶ keys to select time from -10 to +30 minutes. The symbol "+" before time means start/stop recording later and "-"means start /stop earlier. For example, if schedule start time is 13:00 and offset value is +2, the real recoding time is 13:02.

❖ **Remind before Schedule Start**

Set reminding time before starting the schedule recording.
Press ◀▶ keys to select 30 Sec, 60 Sec, 90 Sec, 120 Sec or OFF.

❖ **PVR Icon Time out**

Once recording has started, a symbol 

with recording time, recording channel and duration is shown on the screen. You can change the display time of the symbol. Press ◀▶ keys to select Always, 5 Sec, 10 Sec, 30 Sec, or 60 Sec.
If "Always" is selected, PVR icon is displayed on the screen throughout the recording.

❖ **Default Recording Duration**

Set default recording duration of quick recording. Press ◀▶ keys to select one from 1 to 24 hours.

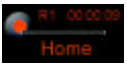
❖ **Timeshift Start Mode**

Press ◀▶ keys to select Always, Pause Key or Never.
Always: System always records programs in the background temporarily. When changing channels or switching the unit to operation mode, system will delete recorded information and start recording program of current channel.
Pause Key: Start time shifted recording with **PAUSE** key.
Never: Unit will not start time shift recording.
Note: Refer to 5.7 Time Shift for corresponding operations.

5.3 Quick Recording

If you want to record current program instantly, you can use this function.
Note: Radio program can not be recorded.

1. Start Recording



When watching a program, press **RECORD** key to start recording and a symbol is displayed in top left corner of screen.

Once a recording is started, the recording file is displayed on the recorded list even though it is not finished yet. To view the recorded file, press **LIST** key (See ***5.5 Playback File***) or alternatively select the File List menu (See ***5.6 Edit Recorded File***).

To record another channel, switch to the channel you want to record and press **RECORD** key again.

Pressing **PAUSE** key directly will not pause the current recording. You must press **RECORD** key to display record Info window, in which you can select "Pause" and press **OK** key to pause valid recording.

⚠ ***Warnings:***

- ***Do not move the unit nor unplug the main AC power while it is running. It may cause damage to recorded file and internal HDD.***
- ***When a program is being recorded onto an external USB device, you must not disconnect it. Arbitrary disconnecting may cause damage to the recording file and USB storage device.***

2. Current Recording Information

Switch to a channel you are currently recording, and press **RECORD** key to enter recording information window, or select Main Menu ? PVR ? Recording Info and press **OK** key to enter.

- **Index:** Press ◀▶ keys to select recording index (R1 or R2).
- **Mode:** Display recording mode. (Quick or Schedule).
- **Channel Name:** Display channel name.
- **File Name:** You can rename the file. Press **OK** key to display a keyboard. Refer to ***5.6.3 Rename Recorded File*** for detailed operations.
- **Valid Record Time:** Display valid record time.
- **Past Time:** Display past time.
- **Duration:** Press ◀▶ keys to select a recording duration. The recording will end at the specified time.

Select "Pause" and press **OK** key to pause valid recording.
Select "Resume" and press **OK** key to resume valid recording.
Select "OK" and press **OK** key to save the setting.
Select "Cancel" and press **OK** key to cancel the setting.

3. Stop Recording

1. Press **STOP** key when recording, a prompt pops up on screen.
2. Select a recording and press **OK** key to stop.

Note: If you playback a program while recording, press STOP key to stop playback, and press STOP key again to stop recording.

5.4 Schedule Recording

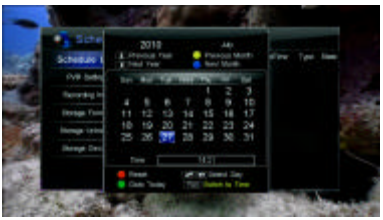
You can set future programs to be recorded at a specific time, and the unit will start recording automatically. In addition, you can modify schedules and delete unwanted schedules.

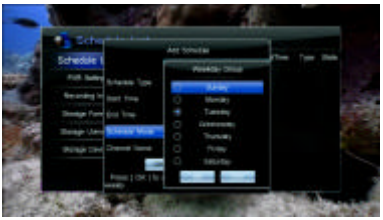
Note: The unit has 2 standby modes called "Passive" and "Active" - see 2.5 Active Standby and Passive Standby for further details. In either mode, the unit will start recording with both picture and sound. the unit will return to standby upon completion. If the unit is on and you have started a recording you can only enter either standby mode by stopping the recording.

Select Main Menu ? PVR ? Schedule and press **OK** key to enter, or press **TIMER RECORD** key to enter directly in non-menu mode.

1. Add Schedule

1. If no schedule is stored, press **OK** key directly to display add schedule window. If some schedules are stored, press **OK** key to pop up a drop-down list, select "Add" and press **OK** key to display add schedule window.
2. Set schedule parameters as follows:
   Schedule Type: Set schedule type to Rec with ◀▶ keys. The unit will record channel at the specific time automatically.
   Schedule Start Time: Press **OK** key to display calendar window. You can select a specific date using the arrow keys, then press the **FAV** key to enter a starting time using the number keys. The recording will be started at the specific time. Press **OK** key to save and re-enter the schedule window.
   Schedule End Time: Press number keys to input end time.
   Schedule Mode: Press ◀▶ keys to select Once (one time), Daily (every day) or Weekly (one day every week). If "Weekly" is selected, press **OK** key to display weekly window. You can select desired days from Monday to Sunday with ▲▼ keys and press **OK** key to confirm, then select "OK" and press **OK** key to save.
   Channel Name: Press **OK** key to display channel list, from which you can press ▲▼ keys to select your desired channel.





3. Move cursor to "OK" and press **OK** key to add schedule.

Note: You can schedule recording in EPG window directly. Refer to 4.2 Schedule Program using EPG for detailed operations.

2. Modify Schedule

1. Press ▲▼ keys to select a schedule.
2. Press **OK** key to display a drop-down list.
3. Select "Modify" and press **OK** key to display modify schedule window. You can modify schedule start time, end time and mode. Refer to ***5.4.1 Add Schedule*** for detailed operations.

3. Delete Schedule

1. Press ▲▼ keys to select a schedule.
2. Press **OK** key to display a drop-down list.
3. Select "Delete" and press **OK** key to mark the schedule with "✖". If you want to cancel this setting, press **OK** key again to display the drop-down list and select "Cancel del".
4. Press **EXIT** key to pop up a message box for confirmation. Select "OK" and press **OK** key, the marked schedules will be deleted.

Note: You can also select "Delete All" and press OK key to delete all schedules, or select 'Cancel del all" and press OK key to cancel.

5.5 Playback File

After a program is recorded, it is stored as a file on the internal hard disk drive or USB device. You can select a file to playback from the recorded file list.

Once playback has started, a ⏵ symbol will be displayed at the top left corner of the screen for few seconds. When a program is recorded, its additional contents such as audio tracks or teletext are also recorded together. So you can enjoy them while playing back a recorded file.

Note: When a file from the external hard disk drive is being played back, you must not disconnect it from the unit. Arbitrary disconnecting may cause damage to the recorded file.

Select Main Menu ? REC Files and press **OK** key to enter, or press **LIST** key to enter directly in non-menu mode. The instructions on how to play a recorded file are as follows:

If there are several storage devices connected to your receiver at the same time, or you have created favorite groups, you can select a storage device or a group from those which are displayed on the right side of screen, then press ▶ key to enter file list.

1. Press ▲▼ keys to select a file.
2. Press **OK** key to pop up a drop-down list.
3. Select "Play" and press **OK** key to start playback.
4. Press **STOP** key to stop playback and play live program.

During a playback, you can execute the following operations:

1. Pause

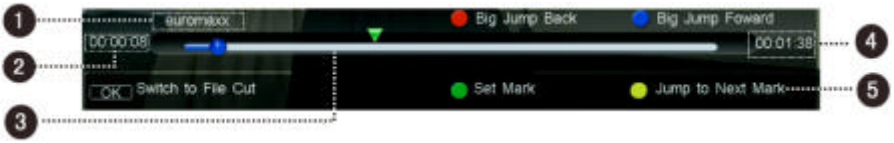
Press **PAUSE** key to pause playback, press **PLAY** key to resume playback.

2. Fast Backward/Forward

You can fast forward or rewind while watching a recorded file.
To rewind, press **REW** key. If you press it repeatedly, the playback speed changes in 5 steps: ×2, ×4, ×8, ×16 and ×32 times. You can press **PLAY** key to resume normal speed.
To fast forward, press **FF** key. If you press it repeatedly, the playback speed changes in 5 steps: ×2, ×4, ×8, ×16 and ×32 times. You can press **PLAY** key to resume normal speed.

3. Playback Process Bar

If you press **INFO** key, playback process bar is displayed. It displays cur rent file inform ation, playback process and operation help information.



1. File name
2. ~~Watching point time~~ (hh:mm:ss)/
3. Playback process
4. Total time (hh:mm:ss)
5. Operation help information

4. Jump backward/forward

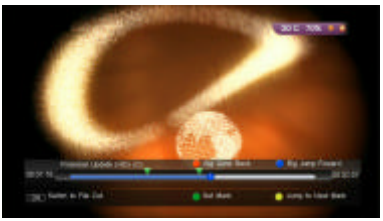
1. Press **INFO** key to display playback process bar.
2. Press **Red**/**Blue** keys to make a big jump backward/forward.
3. Press **PLAY** key to play from the specified time point.

5. Bookmark

You can mark favorite parts of a recor ded file by creating bookmarks, and then jump to them. You can have up to 20 bookmarks. Bookmarks are stored with the recorded file so that you can use them again.
To make bookmarks, perform the following steps during playback:

❖ **Add Bookmark**
1. Press **INFO** key to display the process bar.
2. Press **Green** key to add a bookmark at a d esired scene; then you will see a small triangle appear on the progress bar as per the picture on the right.

❖ **Go to Bookmark**
1. Press **INFO** key to display the process bar.
2. Press **Yellow** key to jump to the next bookmark on progress bar. The file will be played from the bookmark.



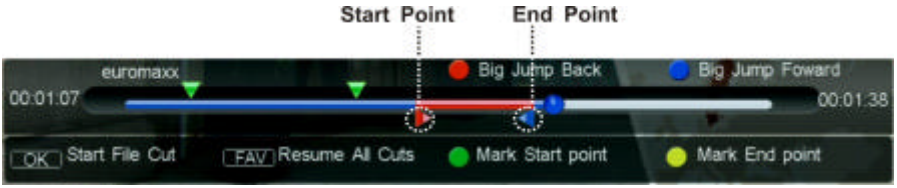
❖ **Delete Bookmark**
1. Press **INFO** key to display the process bar.
2. Press **Yellow** key to jump to a bookmark.
3. Press **Green** key to delete it.

6. File Cut

You can cut sections such as commercial breaks from a recorded file. The cut section will be skipped during playback. To cut the file, perform the following steps during playback:
1. Press **INFO** key to display playback progress bar.
2. Press **OK** key to enable the "File cut" keys (Green and Yellow).
3. Move to the starting point of the scene you want to cut by using **VOL◀** or **VOL▶** key.

4. Press **Green** key, then a small triangle appears on the progress bar.
5. Move to the end of the scene.
6. Press **Yellow** key, the cut section is marked in bright green.
7. Press **OK** key，and then you get asked for confirmation. If you select "OK", the marked part is cut.

Note: If you want to restore all cut contents, press FAV key.



5.6 Edit Recorded File

You can delete, rename, lock and manage group of recorded files and also copy files between internal and external hard disk drives.

Select Main Menu ? REC Files and press **OK** key to enter, or press **LIST** key to enter directly in non-menu mode.

1. Delete Recorded File

1. Press ▲▼ keys to select a file you want to delete.
2. Press **OK** key to pop up a drop-down list.
3. Select "Delete" and press **OK** key to confirm. The file is marked with "✖". If you want to cancel the setting, press **OK** key again to pop up the drop-down list . Select "Cancel Delete" and press **OK** key to confirm.
4. After pressing **EXIT** key, a confirmation message is displayed on the screen for confirmation. Select "OK" to delete the selected file.

You can also select "Delete All" and press **OK** key to delete all schedules, or select "Cancel del all" and press **OK** key to cancel.

2. Add Recorded File to Group and Manage Group

❖ **Add recorded file to group**

1. Press ▲▼ keys to select a file in file list.
2. Press **OK** key to pop up a drop-down list.
3. Select "GroupMg" and press **OK** key to pop up group edit window.
4. Select a group and press **OK** key to add the selected file to this group.

In addition, you can manage groups by creating, deleting and renaming in group edit window.

❖ **Create group**

Press **Green** key to pop up an on-screen keyboard. Refer to ***5.6.3 Rename Recorded File*** for detailed operations.

❖ **Delete group**

1. Press ▲▼ keys to select a group in the group edit window.
2. Press **Red** key to delete it, and then a war ning box appears asking you for confirmation. If you select "OK", the selected group will be removed.

❖ **Rename group**

1. Press ▲▼ keys to select a group in the group edit window.
2. Press **Yellow** key to pop up an on-screen keyboard. Refer to ***5.6.3 Rename Recorded File*** for detailed operations.

3. Rename Recorded File

1. Press ▲▼ keys to select a file.
2. Press **OK** key to pop up a drop-down list.
3. Select "Rename" and press **OK** key to display an on-screen keyboard.

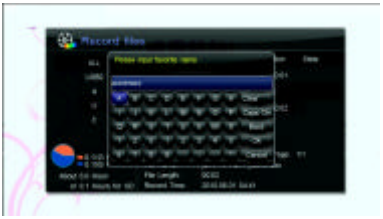
You can move the cursor horizontally with ◀▶ keys and vertically with ▲▼ keys. Press **OK** key on a button to enter its character on the input line.

To delete all characters on the input line, select "Clear" and press **OK** key.

To switch between upper and lowercase, select "Caps On" and press **OK** key.

To delete last character on the input line, select "Back" and press **OK** key.

You must select " OK" and press **OK** key to complete naming, otherwise if you select "Cancel" or press **EXIT** key directly, it will not be named.



4. After renaming, new file name appears in file list.

4. Lock Recorded File

1. Press ▲▼ keys to select a file you want to lock.
2. Press **OK** key to pop up a drop-down list.
3. Select "Lock" and press **OK** key to lock this file, and mark it with "🔒". If you want to cancel this setting, press **OK** key again to pop up the drop-down list, select "Lock" and press **OK** key to confirm.

Note: Password is required to view locked file, refer to 9.2 Modify Password.

5. Copy File

You can copy files between connected storage devices.
1. Select a file.
2. Press **OK** key to pop up a drop-down list.
3. Select "Copy File" and press **OK** key to pop up a message box for confirmation.
4. Select a storage device and press **OK** key to conform.

5.7 Time Shift

Note: If you set USB device as storage device, "time shift" will not be available.
Time shift means that the live channel you are wat ching gets saved temporarily in the buffer of the internal hard disk. When enabled, you can pause the program you are watching and r e-sume it again at a later time. You can then access any part of the current program by using the fast forward or rewind func tions as if playing back a r ecording. To enable this feature, see **5.2 Set Recording Parameter.**

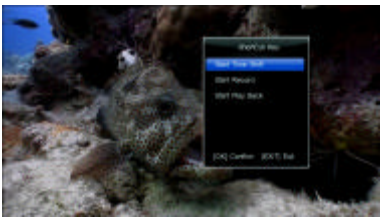
1. Using Time Shift

After starting time shift, the unit records current program on embedded HDD in the bac kground temporarily. You can playback it as if playback a recorded file.
You can perform pause/play, fast backward/forward, etc. Refer to ***5.5 Playback File*** for detailed operations.
You can also press **INFO** key to display playback pro gress bar. It displays current channel information, playback progress.

2. Stop Time Shift

Press **STOP** key or switch to another channel to stop time shift and return to play live program.

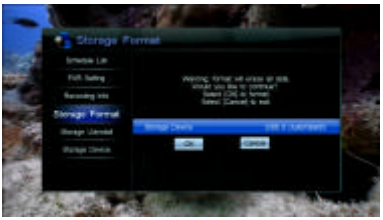
5.8 Shortcut Key of PVR



When watching a program, press **PVR** key to di s-play shortcut key list.
This feature is a convenient pop up menu that will display all the PVR functions according to the cu r-rent situation.

5.9 Storage Device Management

1. HDD Format



⚠ ***Warning: This function will format your in-ternal hard disk or USB device, and all stored contents will be deleted.***
Select Main Menu ? PVR ? Storage Format and press **OK** key to enter.
1. Press ◀▶ keys to select storage device.
2. Select "OK" and press **OK** key to pop up a

warning box for confirmation.

3. Select "OK" and press **OK** key to confirm or select"Cancel" and press **OK** key to cancel the operation.

You can also select Main Menu ? Setting ? Storage Device and press **OK** key to enter.
The icon in the bottom left corner of window displays used and free space of the selected device.

1. Select a device you want to format.
2. Press **OK** key to pop up a drop-down list.
3. Select "Storage Format" and press **OK** key, a warning box pops up for confirmation.
4. Select "OK" and press **OK** key to confirm or select "Cancel" and press **OK** key to cancel the operation.

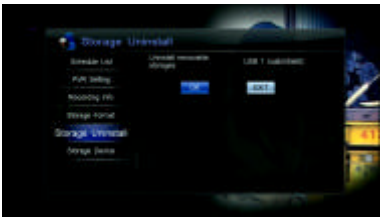
Notes:

- ***If you have replaced the internal HDD with new a one, you must format it before use because the unit has its own file system which is different from any personal computers. You can neither record nor use time shift with an unformatted HDD.***
- ***This unit only supports Consumer Electronics (CE) HDD specially made for PVR video recording.***

2. Storage Uninstall

⚠***Warning: Uninstall storage device before unplugging it from the receiver. Otherwise, device may be damaged ~~or system abnormal~~.***

Select Main Menu ? PVR ? Storage Uninstall and press **OK** key to enter.



1. Select a desired storage device.
2. Select "OK" and press **OK** key to pop up a warning box for confirmation.
3. Select "OK" and press **OK** key to uninstall or select "EXIT" and press **OK** key to cancel the operation.

After uninstall device successfully, you can remove it from the receiver.

You can also select Main Menu ? Setting ? Device and press **OK** key to enter.
The icon in the bottom left corner of window displays used and free space of the selected device.

1. Select a device you want to uninstall.
2. Press **OK** key to pop up a drop-down list.
3. Select "Storage Uninstall" and press **OK** key, a warning box pops up for confirmation.
4. Select "OK" and press **OK** key to confirm or select "Cancel" and press **OK** key to cancel the operation.

6. Multimedia

You can view photos and listen to music in MP3 format from a USB device (su ch as memory stick).

Notes:

- ***Make sure that your USB device contains MP3 and JPEG files before inserting it into the unit.***
- ***USB device should be inserted into the USB porton the front panel before operating.***
- ***Uninstall USB device before unplugging it from the receiver. Refer to 5.9.2 Storage Uninstall for detailed operations.***

6.1 MP3

Select Main Menu ? Multimedia ? MP3 and press **OK** key to display MP3 list.

1. Press ▲▼ keys to select an MP3 file.
2. Press **OK** key to play it, a playing process bar is display on th e screen. You can operate as fo l-lows:
   OK key: Pause/resume play
   FAV key: Switch among Single Play, Sequence Play and Random Play
3. Press **EXIT** key to stop play and exit.

6.2 Digital Photo

Select Main Menu ? Multimedia ? Digital photo and press **OK** key to display photo list.

1. Press ◀▶▲▼ keys to select a photo.
2. Press **OK** key to display it in full screen, and you can operate as follows:
   ◀▶ keys: Display previous/next photo
   ▼ key: Pop up photo setting window to sele ct slide show
3. Press **EXIT** key to exit.

7. Channel Search

This will guide you through parameter settings to search for channels.

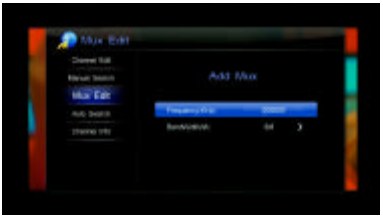
7.1 Advance Frequency Edit

In general, multiple television or radio broadcasts are transmitted though a single frequency . This is a frequency with multiple channels. In Mux Edit window, the unit presets dozens of frequencies, so you can modify or delete them. You can also add some new frequencies.

Select Main Menu ? Channel ? Mux Edit and press **OK** key to enter.

Note: Make sure you are familiar with the technical aspects of the cha nnel frequency before you proceed to edit it.

1. Add Frequency

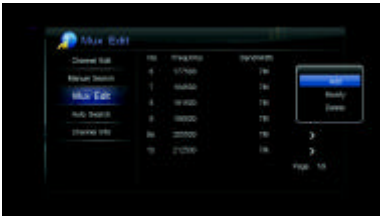


Press **OK** key to pop up a drop-down list. Select "Add" and press **OK** key to pop up add Mux window, in which you can add a frequency by performing the following steps:

1. Press numeric keys to input new frequency values.
2. Press ◀▶ keys to select proper bandwidth.
3. Press **EXIT** key to save and go back to the previous menu.
4. The new frequency is shown on the end of list.

2. Modify Frequency

1. Press ▲▼ keys to select a Mux.
2. Press **OK** key to pop up a drop-down list.
3. Select "Modify" and press **OK** key to pop up modify Mux window.
4. Press ◀▶ or number keys to set proper values.
5. Press **EXIT** key to save the setting.



3. Delete Frequency

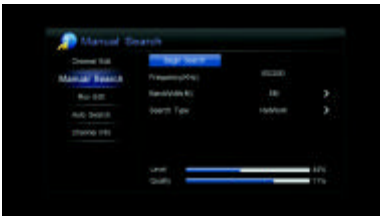
1. Press ▲▼ keys to select a frequency.
2. Press **OK** key to pop up a drop-down list.
3. Select" Delete" and press **OK** key to delete it.

7.2 Search Type

1. Manual Search

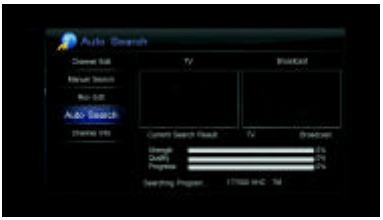
You may choose to search for channels on a specific frequency since more than one channel is available via each frequency. You can set the parameters manually and s can for channels at the set frequency.

Select Main Menu ? Channel ? Manual Search and press **OK** key to enter.



1. Set parameters as follows:
   Frequency (MHz): Press number keys to input correct frequency.
   BandWidth (M): The default is 8M.
   Search Type: Press ▶ key to pop up a drop-down list. Select a desired item and press **OK** key to confirm.
   If "Single" is selected, system searches cha n-nels only according to the set frequency.
   If "Network" is selected, system search es channels according to NIT (Network Information Table).
2. Highlight "Begin Search" and press **OK** key to search channels.
3. After finishing, the found TV and radio channels will be listed.

2. Auto Search



For beginners, auto search is the best choice. Select Main Menu ? Channel ? Auto Search and press **OK** key to enter. The system will search channels according to default parameters. Updated TV and Radio channels will be sorted automatically.

Note: Do not interrupt the searching to avoid data loss.

8. Channel Edit

You can delete, lock and move channels. In addition, you can make your own favorite channel list.

Select Main Menu ? Channel ? Channel Edit and press **OK** key to enter . You will need to enter your password to access the Channel Edit window, refer to ***9.2 Modify Password*** for more details.

8.1 Set Favorite Channel

1. Press ▲▼ keys to select a channel.
2. Press ▶ key to pop up a drop-down list.
3. Highlight "Favorite" and press **OK** key to mark this channel with "♥". If you want to cancel this setting, press **OK** key again to pop up the drop-down list, and select "Cancel Favorite" and press **OK** key to confirm.

8.2 Lock Channel

1. Press ▲▼ keys to select a channel.
2. Press ▶ key to pop up a drop-down list.
3. Highlight "Lock" and press **OK** key to mark th is channel with "🔒". If you want to cancel this se t-ting, press **OK** key again.

Note: The local password is required to view locked channel, refer to 9.2 Modify Password for further details.

8.3 Move Channel

1. Press ▲▼ keys to select a channel you want to move.
2. Press ▶ key to pop up a drop-down list.
3. Highlight "Lock" and press **OK** key to mark this channel with a symbol "⇄".
4. Press ▲▼ keys to move this channel to a new position and press **OK** key to confirm.

8.4 Delete Channel

Note: A deleted channel cannot be accessed unless you search for it again.

1. Press ▲▼ keys to select a channel.
2. Press ▶ key to pop up a drop-down list.
3. Highlight "Delete" and press **OK** key to mark this channel with "✖". If you want to cancel this se t-ting, press **OK** key again.

You can also delete all channels if "Delete All" is selected.

After above setting, press **EXIT** key and a message box pops up for confi rmation. Select "OK" and press **OK** key to confirm or select "EXIT" and press **OK** key to cancel the operation.

9. System Setting

9.1 Common Set

You can to configure the video and audio settings appropriately to your TV set and other a p-pliances.

Select Main Menu ? Setting ? Common Set and press **OK** key to enter.

Menu Language: Press ▶ key to pop up a drop -down list. Press ▲▼ keys to select a language for menu and press **OK** key to confirm.

Aspect Ratio: To view wide screen programs on a non -wide screen TV, set the option to Letter Box or pan-scan. Wide-screen pictures then will be reduced to fit to the width of the normal screen.

Resolution: The unit supports various video resolutions: 1080P, 1080i, 720p or 576p. The resolution of 720p, 1080P and 1080i ar e con-sidered high definition. The higher resolution the better quality you can enjoy. However, if your TV set does not support high definition, you cannot enjoy high definition quality picture. You can set the option to the highest resolution your TV can display. If you know your TV 's native screen resolution, you may achieve a better pi cture by setting it to that resolution. The unit will then convert all video output to the selected setting.

Note: You can only view standard definition video with the composite video co n-nector (VIDEO).

Time Zone Set: Make sure that your local time is displayed correctly on this option, ot h-erwise, press ▶ key to pop up a drop -down list, then press ▲▼ keys to select the time zone in which you live.

Close Caption: Set **CC** key function. Press ▶ key to pop up a drop-down list. Press ▲▼ keys to select "On" or "Off".

Daylight Saving Time: If daylight saving time is observed in your state at the moment, set the option to "On".

Note: Daylight saving time adds one hour to the time when the option is set to "On".

When setting the time offset from Greenwich Mean Time, make sure that the time offset does not include daylight saving time.

Menu Transparence: You can change the menu brightness by adjusting the transparency level of the On-Screen Display (OSD). Press ▶ key to pop up a drop-down list. Press ▲▼ keys to select a proper transparence level.

Audio Decode: The unit can output two types of digital audio signals via the S/P DIF connector. One is an encoded signal, and the other is a decoded signal. If your digital audio system does not have a Dolby Digital decoder, you have to set the option to "PCM". Otherwise, set it to "Dolby Digital".

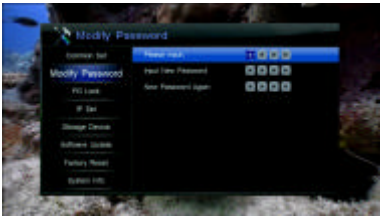
Note: If the channel you are currently watching does not provide Dolby digital, you cannot watch the program with Dolby sound even though you set the option to AC3.

PIP: Refer to ***3.8 Picture in Picture (PIP).***

9.2 Modify Password

The local password is required to view locked channels (See ***8.2 Lock Channel***), or access some menus, such as Channel Edit, Software Update, Resume Default, etc. The password is set to **0000** by default. You can change this password if necessary.

Select Main Menu ? Setting ? Modify Password and press **OK** key to enter. The password is needed to activate the setting.



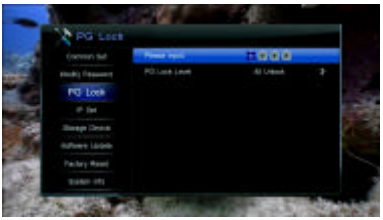
1. Press number keys to input new password.
2. Press number keys to input new password again for confirmation.
3. Press **EXIT** key to save and exit.

Note: In case you lost your password, please use the Master Unlock Code" 8101".

9.3 PG (parental) Lock

You can set parental control for program.

Select Main Menu ? Setting ? PG Lock and press **OK** key to enter. The password is needed to activate the setting.



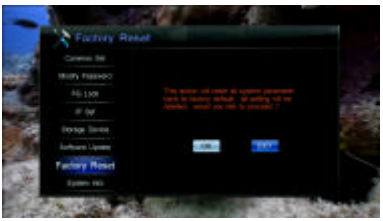
1. Press ▶ key to pop up a sub-menu consists of different parental control levels.
2. Select a proper level and press **OK** key to confirm.

Note: The password is required to view programs beyond set level.

9.4 Resume Default

⚠ ***Warning: This function will restore system settings to factory default.***

Select Main Menu ? Setting ? Resume Default and press **OK** key, a warning box pops up for confirmation. Select "OK" and press **OK** key to confirm or select "EXIT" and press **OK** key to cancel the operation. System will reboot after restoring.



10. Software Upgrade

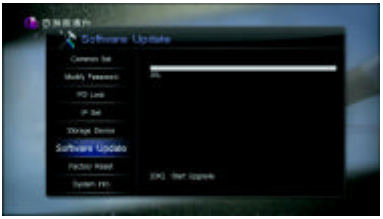
Warning: Do not turn off the unit or unplug the USB device during software upgrade.

The unit has stable and convenient software to use. However, once in a while new software may be released to improve the unit's performance. You can upgrade software via the USB port.

You have to check the software information of your unit before downloading new software, and download the latest software with the same system identification. It is only possible to upgrade software with a system identification that is identical to yours, otherwise you will fail in software update.

If you have a USB memory stick, you can update the software by performing the following steps:

1. Download new software from the web site.
2. Copy the software file to your USB memory stick.
3. Turn on the unit.
4. Insert the USB storage device into the USB port on the unit.
5. Select Main Menu ? Setting ? Software Update.
6. Enter the password (default: 0000) ? Software Upgrade menu.
7. Press ▲▼ keys to select the software and press **OK** key to upgrade. During this process an upgrade progress bar is displayed on screen.
8. After upgrade, a message will be displayed on the screen and the unit will restart after which the software update process is complete.



11. Information

You can view channel information and system information, etc.

11.1 Channel Information

This window displays information about current channel, such as PID values, frequency, bandwidth, signal level and signal quality, etc.

Select Main Menu ? Channel ? Channel Info and press **OK** key to enter.

11.2 System Information

This window displays information about the receiver, such as hardware version, software version, etc.

Select Main Menu ? Setting ? System Info and press **OK** key to enter.

12. Appendix

12.1 Trouble Shooting

DISPLAY on front panel is off

1. Power cord is disconnected. Make sure power cord is plugged into a proper power socket.
2. The unit is turned off. Turn it on.

DISPLAY on front panel is on, but there is no sound or picture on the TV screen

The unit is in standby mode. It will switch into operation mode and start recording or playing a program at a specified time. You can also press key to switch it to operation mode.

No signal

1. Signal cable is disconnected. Connect signal cable correctly.
2. Program parameters have been set incorrectly. Set correct parameters.
3. No signal from terrestrial antenna. Try again when signal is available.

No sound

1. Audio cable is disconnected or incorrectly connected. Connect audio cable correctly.
2. The unit is in mute mode. Press **MUTE** key to restore sound.
3. Volume is set to minimum. Increase volume to a proper level.
4. Audio parameter has been set incorrectly. Set a proper audio parameter.

No picture

1. Video cable is disconnected or incorrectly connected. Connect video cable correctly.
2. The unit is in radio mode. Switch it to TV mode if you need.

Video and audio mismatch, or abnormal sound

Audio parameter has been set incorrectly. Select a proper audio parameter.

Poor quality picture

Weak signal. Connect signal cable securely.

RCU doesn't work

1. Not enough power in batteries. Replace the batteries.
2. RCU is not aimed at the unit. Aim RCU at the unit.

Cannot record program

1. The hard disk is full. Delete some old recorded files for new recording.
2. Check if recording is overlapped with another channel. Stop current recording or wait until the recording is finished.

Cannot operate "time shift"

1. The "time shift" mode is set to "Never". Change the mode to "Pause Key" or "Always".
2. If you set USB device as your storage device, "time shift" is not available. Select internal hard disk as storage device as per ***5.1 Set Storage Device***.

Note: If you cannot solve the problems after referring to this trouble shooting, please contact the TEAC Customer Care Centre, see back page for details.

12.2 Specification

Tuner	
Input Frequency	47 ~ 858MHz
Loop out Frequency	47 ~ 858MHz
Input Level	-25 ~ +20dBmV
Bandwidth	6M, 7M, 8M
Input Impedance	75ohm
Channel Decoding	
Standard	DVB-T EN300 744
FEC Code Rate	1/2, 2/3, 3/4, 5/6, 7/8
Demodulation	(QPSK,16 and 64 QAM)
Video Decoding	
Standard	MPEG2/4 H.264 MP@HL, MP@ML
Aspect Ratio	4:3, 16:9
Video Resolution	1920*1080i Max.
Audio Decoding	
Standard	ISO/IEC 13818-3 and TR101154
Decoding	MPEG-1 layer I and II, AC3
Audio Mode	Left, Right, Stereo
Audio Sampling Frequency	32, 44.1, 48KHz
High Definition Output	
Output Format	1080i, 1080P, 720p
Output Connector	HDMI/YPbPr
Memory	
Flash Memory	8MB
DDR	192MB
Front Panel	
IR Receiver	38KHz
5 Keys	VOL-/+, CH▲/▼, OK
Rear Panel	
Connector	ANT IN (2), LOOP OUT (2)
	HDMI
	YPbPr/CVBS, AUDIO L/R
	S/P DIF
	RS-232
	USB
Remote Control	
Type	Infra-red (Carrier Freq: 38 KHZ)
Battery	2×1.5V AAA Type
Power/Ambient	
DC Power Supply	12V ⎓ 3.0A
Operation Temperature	0℃ ~ 40℃

HDD	
Supported HDD Size	Up to 1TB
Size for SD recording	0.8 GB / hour
Size for HD recording	2 GB / hour
Recording format (External USB storage device)	TRP
Music file type	MP3
Picture file type	JPEG

12.3 Acronym

DVB	Digital Video Broadcasting
EPG	Electronic Program Guide
FTA	Free to Air
HDD	Hard Disk Drive
HDMI	High Definition Multimedia Interface
MUX	Multiplexer
OSD	On Screen Display
PVR	Personal Video Recording
RCA	Radio Corporation of America
RCU	Remote Control Unit
S/P DIF	Sony/Philips Digital Interface Format
USB	Universal Serial Bus

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